

Technical Reference Manual

Introduction & Vectra Product Line Overview

The Technical Reference Manual contains the following documents downloadable from the Web in PDF format:

Introduction & Vectra Product Line Overview

The document you are reading. Describes how to use the Technical Reference Manual and provides an overview of VEi and VLi PCs.

Product Description

A separate document for VEi 7 models, VEi 8 models and VLi 8/VLi 8SF models, providing detailed BIOS information and summary information on the hardware components in the PC.

Vectra Technology

A detailed look at the hardware components in all the PCs in the product line. Includes information on processors, chip sets, graphics controllers, network cards, connectors and sockets.

HP Vectra

- VEi 7
- VEi 8
- VLi 8
- VLi 8SF

Vectra Product Line Overview

This document provides a brief overview of the technical features and components of the following HP PCs: $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left$

- •VEi 7 Desktops
- •VEi 8 Desktops
- •VLi 8 Desktops and Minitowers
- •VLi 8 SF Desktops

Overview of the PCs in this Manual

Vectra VEi PCs

Component	VEi 7 (Desktop only)	VEi 8 (Desktop only)	
Package Description	1 Or 2 Free Front-access shelves (one if a CD-ROM is fitted). Up to 4 Accessory board slots (3 PCI, 1 ISA).	1 Or 2 Free Front-access shelves (one if a CD-ROM is fitted) Up to 4 Accessory board slots (3 PCI, 1 ISA)	
	Width: 41.8cm (16.5 in); Height: 14.0 cm (5.5 in); Depth: 37.5 cm (14.8 in).		
Processor	Intel® Celeron™ Socket 370 366/66, 400/66, 433/66, 466/66 when available (128 KB L2 cache).	Intel Pentium® II 350/100, 400/100 (512KB L2 cache). Intel Pentium III 450/100, 500/100 (512KB L2 cache).	
System Board:			
Chip set	SiS 620/5595	Intel 440ZX/PIIX4E	
Integrated I/O	On SiS 5595 chip. 2 USB connectors, 1 serial port and 1 parallel port	On PIIX4E chip. 2 USB connectors, 1 serial port and 1 parallel port.	
Integrated IDE	On SiS 5595 chip. 2 IDE Ports (Ultra DMA/33)	On PIIX4E chip. 2 IDE Ports (Ultra DMA/33)	
Integrated Graphics	SiS super AGP graphics controller (on SiS 620 Host chip) with 4 MB of video memory (upgradeable to 8MB)	Integrated Matrox® Millennium G200 2X AGP graphics controller with 8MB of video memory (not upgradeable)	
Integrated Audio	CrystalClear™ CS4280 PCI audio controller/CrystalClear CS4297 Audio Codec '97		
Mass storage	Hard disks: 4.3 GB IDE, or 8.4 GB IDE. 6.4 GB IDE (accessory D8372A) Floppy drive: standard 1.44 MB 3.5" CD-ROM drive: 32X MAX IDE (selected models). Available as accessory (D4348A) DVD drive: accessory D6935A. ZIP drive: accessory D6650A.		
Main memory	Two DIMM sockets using: 32MB, 64MB, 128MB non-ECC 100MHz SDRAM or 256MB ECC 100MHz SDRAM to a maximum of 512MB. PC comes with a single 32MB or 64MB DIMM. Other DIMMs available as accessories.		
Expansion cards (available as accessories)	HP Adaptec 2940 UW SCSI board: accessory D6951A. HP Serial interface card: accessory D8388A. HP 10/100 3Com 3C905B-TX network interface card (on selected models). Also available as an accessory (single card: D7504A). HP 10/100 Intel Pro/100 + management adapter. Network card accessory D7506A (single card). HP 56K V90 PCI fax modem: accessory D7808A.		
Input devices	HP Standard Keyboard HP Standard Mouse HP Scrolling Mouse: accessory C4736A.		
Power supply	Manually switched 115/230 VAC, 170 W input, 90 W output		
BIOS	Type: Phoenix BIOS Version: HX.07.xx Setup program: English only BIOS error messages: English only	Type: Award BIOS: Version: HW.27.xx Setup program: English only BIOS error messages: English only.	

Vectra VLi PCs

Component	VLi 8 Desktop	VLi 8 Minitower	VLi 8 SF (Small Form Factor Desktop)	
Package Description	1 Or 2 free front-access shelves (1 if a CD-ROM is fitted). The second shelf can also be used for a second hard drive. Up to 4 expansion slots (2 PCI, 1 ISA, 1 PCI-ISA combination slot).	2 Or 3 free front-access shelves (2 if a CD-ROM is fitted). One free internal shelf for a second hard drive. Up to 6 expansion slots (3 PCI, 3 ISA).	One or no free front-access shelves (none if a Slim CD-ROM is fitted). Up to 2 expansion slots (1 PCI, 1 PCI-ISA combination slot).	
	Width: 44.3 cm (17.4 in); Height: 13.8 cm (5.4 in);	Width: 20.7 cm (8.1 in); Height: 46.9 cm (18.5 in);	Width: 37 cm (14.6 in); Height: 9.5 cm (3.7 in);	
	Depth: 43.5 cm (17.1 in); Weight: 10.4 kg (22.9	Depth: 45.5 cm (17.9 in); Weight: 14.8 kg (32.6	Depth: 39 cm (15.4 in); Weight: 7.54 kg (16.5	
	pounds)	pounds)	pounds).	
Processor	Intel Pentium II 400/100 (512KB L2 cache). Intel Pentium III 450/100, 500/100 and when available 550/100 (512KB L2 cache).		Intel Celeron Socket 370 366/66, 400/66 (128 KB L2 cache). Intel Pentium II 400/100 (512KB L2 cache). Intel Pentium III 450/100, 500/100 (512KB L2 cache).	
System Board:				
Chip set	Intel 440ZX/PIIX4E			
Integrated I/O	On PIIX4E chip. 2 USB connectors, 2 serial ports and 1 parallel port.			
Integrated IDE	On PIIX4E chip. 2 IDE Ports (Ultra DMA/33)			
Integrated Graphics	Integrated Matrox Millennium G200 2X AGP graphics controller with 8MB of video memory (not upgradeable)			
Integrated Audio	CrystalClear CS4280 PCI audio controller/CrystalClear CS4297 Audio Codec '97			
Integrated Network	not available	not available	HP 10/100 3Com 3C905B-TX integrated on riser card	
Mass storage	IDE Hard disks: 6.4GB or 8.4 GB. CD-ROM drive: 32X MAX IDE (selected models). Also available as accessory (D4348A). Floppy drive: standard 1.44 MB 3.5". DVD drive: accessory D6935A. ZIP drive: accessory D6650A.	IDE Hard disks: 6.4GB, 8.4GB or 13.5GB. CD-ROM drive: 32X MAX IDE (selected models). Also available as accessory (D4348A). Floppy drive: standard 1.44 MB 3.5". DVD drive: accessory D6935A. ZIP drive: accessory D6650A.	IDE Hard disks: 4.3GB or 8.4GB. 6.4GB available as accessory (D8372A). Slim CD-ROM drive: 24X MAX IDE (selected models). Also available as accessory (D8381A). Floppy drive: standard 1.44 MB 3.5".	
Main memory	Two DIMM sockets using: 32MB, 64MB, 128MB non-ECC 100MHz SDRAM or 256MB ECC 100MHz SDRAM to a maximum of 512MB.			
	Comes with a single 64MB DIMM. Other DIMMs available as accessories.		Comes with a single 32MB or 64MB DIMM. Other DIMMs available as accessories.	
Expansion cards (available as accessories)	HP 10/100 3Com 3C905B-TX network interface card (on selected models). Also available as accessory (single card: D7504A). HP 10/100 Intel Pro/100+ management adapter. Network card, available as an accessory (single D7506A). HP 56K V90 PCI fax modem. Accessory D7808A.		HP 10/100 Intel Pro/100+ management adapter. Network card, available as an accessory (single card D7506A). HP 56K V90 PCI fax modem. Accessory D7808A.	
Input devices	HP Standard Keyboard; HP Standard Mouse; HP Scrolling Mouse (accessory C4736A).			
Power supply	Manually switched 115/230 VAC, 170 W input, 120 W output (max)	Manually switched 115/230 VAC, 170 W input, 120 W output (max)	Manually switched 115/230 VAC, 170 W input, 90 W output (max)	
BIOS	Type: HP/Phoenix; Version: HZ.01.xx; Setup Program: English only; BIOS error messages: Available in French, German, Spanish, Italian, Danish, Dutch, Finnish, Norwegian, Portuguese, Swedish, Turkish and Japanese.			

The Technical Reference Manual

This *Technical Reference Manual* is a technical reference and BIOS document for personnel providing system level support. It is presented in modular form to provide quick and easy and access to technical information on VEi 7, VEi 8 and VLi 8/VLi8 SF PCs. It is made up of the following components:

- *Vectra Product Line Overview*. This document provides a quick reference guide to the BIOS and hardware components in each PC. It also lists some of the available accessories.
- Product Description. Provides technical information specific to a
 particular PC. This includes summary information on product
 hardware and detailed information on the PC's BIOS. Read this
 manual to see which hardware components are in the PC.

Separate *Product Description* manuals exist for:

- VEi 7 models
- VEi 8 models
- · VLi 8 and VLi 8SF models
- Vectra Technology. An in-depth guide to the hardware in all of the featured Vectra PCs. Subjects covered include chip sets, processors, graphics controllers, hard disk drives and DVD drives.

Technical information that is readily available from other sources, such as manufacturer's proprietary publications has not been reproduced.

The *Technical Reference Manual* contains summary information only. For additional reference material, refer to the bibliography at the beginning of the *Product Description* and *Vectra Technology* manuals.

Conventions

The following conventions are used throughout this manual to identify specific numeric elements:

- ☐ Hexadecimal numbers are identified by a lower case h. **For example,** 0FFFFFFFh or 32F5h
- ☐ Binary numbers and bit patterns are identified by a lower case b. **For example,** 1101b or 10011011b

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